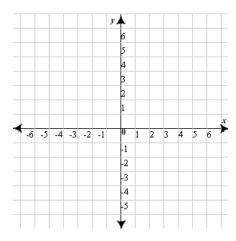
Algebra 2 – Transformations of Functions Homework 3

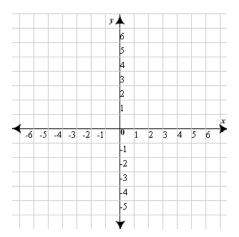
Name:				
			Hour:	Date:
For each function, given the name of the parent function and describe the transformations represented.				
1) $g(x) = x+2 $	Parent Function:			
	Transformation(s):			
2) $f(x) = 5\sqrt{x+3}$				
	Transformation(s):			
3) $h(x) = x^2 - 4$	Parent Function:			
	Transformation(s):			
4) $g(x) = 0.4\sqrt[3]{x}$				
	Transformation(s):			
5) $f(x) = -(-x +$	$(3)^2 - 2$ Parent Function:			
	Transformation(s):			
6) $g(x) = 2^{x-3} + 4$				
	Transformation(s):			
7) $h(x) = -2 x +$				
	Transformation(s):			

- a) In pencil sketch a graph of the parent function
- b) In a different color sketch a graph of the transformed function
- c) Using complete sentences, describe the transformations that occurred to the parent function

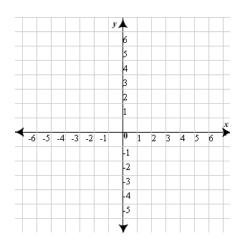
8)
$$y = \sqrt{x+4}$$



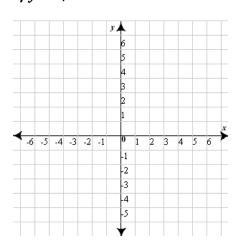
9)
$$y = \sqrt{x} + 4$$



$$10) y = -\sqrt{x}$$



11)
$$y = \sqrt{-x}$$



12) Compare/contrast each of the functions from the same family that you graphed above. What do they have in common? What is the difference between these transformations?